FORSPAN ASSESSMENT MODEL FOR CONTINUOUS ACCUMULATIONS--BASIC INPUT DATA FORM (Version 4, 10-5-00)

IDENTIFICATION INFORMATION

As	sessment Geologist:	S.B. Roberts and R.C. J	ohnson			Date:	10/12/2000
Re	gion:	North America				Number:	5
Pro	ovince:	Uinta-Piceance			<u></u>	Number:	5020
То	tal Petroleum System:.	Mesaverde				Number:	502002
As	sessment Unit:	Uinta Basin Transitional	Gas			Number:	50200262
Ва	sed on Data as of:	PI production data curre	nt through third	quarter 1999	_		
No	tes from Assessor	Gas in area where base	of Mesaverde is	between 0.75	and 1.1 F	₹₀	
WI Nu Nu Est Me	nat is the minimum total imber of evaluated cells: imber of evaluated cells: imber of evaluated cells tablished (>24 cells > min.) edian total recovery per of esessment-Unit Probable Attribute CHARGE: Adequate per	vith total recovery per ce X Frontier (1-24 ell (for cells > min.): (mm 1st 3rd discovered	ias (≥20,000 cfg. 0.02 (m II ≥ minimum: cells) bo for oil A.U.; bounded 0.45 Probabi ested cell with to	/bo) Imbo for oil A Hy cfg for gas A.I. 2nd 3rd lity of occurre tal recovery >	Gas U.; bcfg for 145 pothetical (J.) 0.2 nce (0-1.0 minimum	no cells) 3rd 3rd	0.3 1.0 1.0
	•	ogic timing for an unteste			. —		1.0
٥.	Timility: 1 avolable goo	ogio tirriirig for arr arreote	a con with total i				1.0
As	sessment-Unit GEOLC	GIC Probability (Produc	ct of 1, 2, and 3):			1.0	
					•		•
4.		tion for necessary petrol very ≥ minimum					1.0
	NO. OF UNTESTE	CELLS WITH POTENT	IAL FOR ADDIT	TIONS TO RE	SERVES I	N NEXT 30	/EARS
1.	Total assessment-unit	area (acres): (uncertainty minimum	of a fixed value 1,069,000_) median <u>1</u>	,274,000	maximum	1,479,000
		d cells having potential fo ariable) minimum					240
3.	Percentage of total ass	essment-unit area that is minimum	, , ,	uncertainty of median	a fixed val	ue) maximum	99
4.	_	assessment-unit area th ecessary criterion is that alue) minimum	total recovery pe			in maximum	38

TOTAL RECOVERY PER CELL

Total recovery per cell for untested cells having potential for additions to reserves in next 30 years: (values are inherently variable) (mmbo for oil A.U.; bcfg for gas A.U.) 0.02 median minimum 0.25 maximum 15 **AVERAGE COPRODUCT RATIOS FOR UNTESTED CELLS** (uncertainty of a fixed value) Oil assessment unit: minimum median maximum Gas/oil ratio (cfg/bo)..... NGL/gas ratio (bngl/mmcfg)..... Gas assessment unit: Liquids/gas ratio (bliq/mmcfg)..... 0.75 1.5 2.25 **SELECTED ANCILLARY DATA FOR UNTESTED CELLS** (values are inherently variable) Oil assessment unit: minimum median maximum API gravity of oil (degrees)..... Sulfur content of oil (%)..... Drilling depth (m) Depth (m) of water (if applicable)..... Gas assessment unit: Inert-gas content (%)..... 1.00 10.00 2.00 CO₂ content (%)..... 0.10 1.00 0.50 Hydrogen-sulfide content (%)..... 0.00 0.00 0.00 Drilling depth (m)..... 1500 2500 3500 Depth (m) of water (if applicable).....

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO STATES

Surface Allocations (uncertainty of a fixed value)

1. UT Total	_represents _	100	areal % of the assessme	ent unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			<u>100</u> 0	
2	_represents _		areal % of the assessme	ent unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)				
3	_represents _		areal % of the assessme	ent unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)				
4	_represents _		areal % of the assessme	ent unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)				

5	represents	areal % of the assessmer	it unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
6	represents	areal % of the assessmer	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median 	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
7	represents	areal % of the assessmer	ıt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
8	_represents	areal % of the assessmer	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median 	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO LAND ENTITIES Surface Allocations (uncertainty of a fixed value)

Federal Lands	_represents _	58.68	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity	minimum		median	maximum
Portion of volume % that is offshore (0-100%)				
Gas in gas assessment unit: Volume % in entity			65	
Portion of volume % that is offshore (0-100%)			0	
2. Private Lands	_represents _	6.2	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity	minimum		median	maximum
Portion of volume % that is offshore (0-100%)				
Gas in gas assessment unit: Volume % in entity			4	
Portion of volume % that is offshore (0-100%)			0	
3. Tribal Lands	_represents _	24	areal % of the assessme	nt unit
Oil in oil assessment unit:	represents _ minimum	24	areal % of the assessme	nt unit maximum
		24		
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit:		24	median	
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)		24		
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity		2.41	median	maximum
Oil in oil assessment unit: Volume % in entity	minimum		median	maximum
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) 4. Other Lands Oil in oil assessment unit:	minimum		median 25 0 areal % of the assessme	maximum
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) 4. Other Lands Oil in oil assessment unit: Volume % in entity	minimum		median 25 0 areal % of the assessme	maximum

5. UT State Lands	_represents _	8.71	areal % of the asse	ssment unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			<u>6</u> 0	
6	_represents _		areal % of the asse	ssment unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)				
7	_represents _		areal % of the asse	ssment unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)				
8	_represents _		areal % of the asse	ssment unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)				

9	represents	areal % of the assessmer	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
10	represents	areal % of the assessmer	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
11	represents	areal % of the assessmer	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
12	represents	areal % of the assessmer	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity			

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO FEDERAL LAND SUBDIVISIONS Surface Allocations (uncertainty of a fixed value)

Bureau of Land Management (BLM)	_represents _	41.9	areal % of the asse	essment unit
Oil in oil assessment unit: Volume % in entity	minimum		median	maximum
Portion of volume % that is offshore (0-100%)				
Gas in gas assessment unit:				
Volume % in entity Portion of volume % that is offshore (0-100%)			<u>46.41</u> 0	
r ortion of volume 70 that is offshore (0-10070)				
2. BLM Wilderness Areas (BLMW)	_represents _		areal % of the asse	essment unit
Oil in oil assessment unit:	minimum		median	maximum
Volume % in entity				
Portion of volume % that is offshore (0-100%)				
Gas in gas assessment unit:				
Volume % in entity				
Portion of volume % that is offshore (0-100%)				-
3. BLM Roadless Areas (BLMR)	_represents _		areal % of the asse	essment unit
Oil in oil assessment unit:	minimum		median	maximum
Volume % in entity				-
Portion of volume % that is offshore (0-100%)				
Gas in gas assessment unit:				
Volume % in entity				
Portion of volume % that is offshore (0-100%)				
4. National Park Service (NPS)	_represents _		areal % of the asse	essment unit
Oil in oil assessment unit:	minimum		median	maximum
Volume % in entity				
Portion of volume % that is offshore (0-100%)				
Gas in gas assessment unit:				
Volume % in entity				
Portion of volume % that is offshore (0-100%)				

5. NPS Wilderness Areas (NPSW)	_represents _		_areal % of th	e assessmer	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median		maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)					
6. NPS Protected Withdrawals (NPSP)	_represents _		_areal % of th	e assessmer	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median		maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)					
7. US Forest Service (USFS)	_represents _	16.78	_areal % of th	e assessmer	nt unit
7. US Forest Service (USFS) Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	represents _ minimum	16.78	_areal % of th 	e assessmer	maximum
Oil in oil assessment unit: Volume % in entity		16.78	_	e assessmer	
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity		16.78	median		maximum
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	16.78	18.59		maximum

9. USFS Roadless Areas (USFSR)	_represents	areal % of the assessmen	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
10. USFS Protected Withdrawals (USFSP)	_represents	areal % of the assessmen	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median 	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
11. US Fish and Wildlife Service (USFWS)	_represents	areal % of the assessmen	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median 	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)		<u> </u>	
12. USFWS Wilderness Areas (USFWSW)	_represents	areal % of the assessmen	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			

13. USFWS Protected Withdrawals (USFWSP)	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
14. Wilderness Study Areas (WS)	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
15. Department of Energy (DOE)	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
16. Department of Defense (DOD)	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			

17. Bureau of Reclamation (BOR)	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
18. Tennessee Valley Authority (TVA)	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
19. Other Federal	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
20	represents	areal % of the assessme	nt unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ECOSYSTEMS Surface Allocations (uncertainty of a fixed value)

Overthrust Mountains (OVMT)	_represents _	30.49	areal % of the as	ssessment unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			30.49	
2. Tavaputs Plateau (TPPT)	_represents _	37.15	_areal % of the as	ssessment unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum		median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			37.15 0	
3. Uinta Basin (UTBA)	_represents _	32.36	_areal % of the as	ssessment unit
3. Uinta Basin (UTBA) Oil in oil assessment unit: Volume % in entity	represents _ minimum	32.36	_areal % of the as median	maximum
Oil in oil assessment unit: Volume % in entity		32.36	_	
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity		32.36	median	maximum
Oil in oil assessment unit: Volume % in entity	minimum	32.36	median	maximum
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%) 4. Oil in oil assessment unit: Volume % in entity	represents	32.36	median 32.36 0 areal % of the as	maximum

5	represents	areal % of the assessment unit	
Oil in oil assessment unit: Volume % in entity	minimum	median	maximum
Portion of volume % that is offshore (0-100%)			
Gas in gas assessment unit:			
Volume % in entity			
6	represents	areal % of the assessm	ent unit
Oil in oil assessment unit: Volume % in entity	minimum	median	maximum
Portion of volume % that is offshore (0-100%)			
Gas in gas assessment unit: Volume % in entity			
Portion of volume % that is offshore (0-100%)			
7	represents	areal % of the assessm	ent unit
Oil in oil assessment unit: Volume % in entity	minimum	median	maximum
Portion of volume % that is offshore (0-100%)			
Gas in gas assessment unit: Volume % in entity			
Portion of volume % that is offshore (0-100%)			
8	represents	areal % of the assessm	ent unit
Oil in oil assessment unit: Volume % in entity	minimum	median	maximum
Portion of volume % that is offshore (0-100%)			
Gas in gas assessment unit:			
Volume % in entity	·		-

9	represents	areal % of the assessment unit	
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
10	represents	areal % of the assessmer	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median 	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
11	represents	areal % of the assessment unit	
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)			
12	represents	areal % of the assessmer	t unit
Oil in oil assessment unit: Volume % in entity Portion of volume % that is offshore (0-100%)	minimum	median	maximum
Gas in gas assessment unit: Volume % in entity			

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO LAND ENTITIES Subsurface Allocations (uncertainty of a fixed value)

Based on Data as of: Data through 1998 1. All Federal Subsurface represents 83 areal % of the assessment unit Oil in oil assessment unit: minimum median maximum Volume % in entity..... Portion of volume % that is offshore (0-100%).. Gas in gas assessment unit: Volume % in entity..... 85 Portion of volume % that is offshore (0-100%)... 2. Other Subsurface represents 17 areal % of the assessment unit Oil in oil assessment unit: minimum median maximum Volume % in entity..... Portion of volume % that is offshore (0-100%).. Gas in gas assessment unit: Volume % in entity..... 15 Portion of volume % that is offshore (0-100%).. 0



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